

2021 Muscatine County Fair Demo Derby Rules

July 25th, 2021

General Rules

1. All drivers must be 16 years old and have a valid driver's license.
2. Any person under 18 years of age must have written parental permission.
3. No one under 14 years of age allowed in the pits without written parental permission.
4. No alcohol in the pits. this means driver and pit crew.
- 5. OFFICIALS DECISION WILL BE FINAL. IF CAR DOESN'T PASS INSPECTION THERE WILL BE NO REFUNDS.**
6. All drivers and crew must attend drivers meeting.
7. Do not hit the driver's door. It does happen but you will be dq'ed if we feel it was intentional or careless. Also do not use your door as a shield. You will get dq'ed for that also.
8. No hot rodding in the pits.
9. No sandbagging or holding you will get one warning then you will be dq'ed.
10. You are given 90 seconds for aggressive hits, 60 seconds for restarts, and 2 minutes if you are hung up.
11. Must wear a helmet and seat belt at all times when in the car.
12. No foul language or suggestive pictures.
13. Original gas tank must be removed from the car.
14. All chrome, plastic, door handles, and glass must be removed from the car.
15. If you have 2 fires of any kind you will be dq'ed.
16. Any questions call first.
17. All cars must be swept clean of all debris before inspection.

Car Preparation

1. All interior must be removed. this means back seats in all cars and the decking in station wagons.
2. No tires bigger than 15 inches. No split rims, no studded tires. Foam filled or doubled tires ok, we don't want any flats.

3. You can use motor and tranny of choice. motor must be in stock location. you may chain or weld motor and tranny to stay in place, but do not strengthen the frame.
4. You can use rear end of choice. it must be 5 lugs. no floaters. you can tilt rear end. welded or posi track highly recommended.
5. You must use a radiator and it must be in the stock location. No homemade radiators.
6. All cars must have working brakes at all times.
7. A-arms and ball joints must remain stock.
8. All trailer hitches and braces must be removed.
9. You must use a well-made fuel cell or boat tank. it needs to be properly mounted, covered and boxed in. no open plastic tanks or cans. fuel lines must be properly secured and fastened inside the car, do not run fuel lines under the car.
10. Must have a fuel tank protector.
11. Batteries must be moved to the passenger floor boards. they must be properly mounted, covered, and boxed in. 2 batteries max.
12. Tranny coolers will be allowed, but must be safely and properly mounted.
13. You must have a number that is easily viewable. and one top of the car for judging and recognition of the car.

Full Size Car Building

1. Any American made sedan or station wagon may be ran. no imperials or imperial sub-frames, 4x4's, ambulances, hearses, trucks, etc.
2. No welding on the frame, except for the top frame seam from the arms forward.
3. Doors and trunk maybe welded solid. You may use 3/8" round stock or 3"x1/4" flat stock to weld the doors and trunks shut. do not weld the hood on, you will cut it off to pass inspection.
4. If you do not weld the doors, trunk, or tailgates, you may chain them with 3/8 chain or less, or wire no bigger than #9. you are allowed 2 spots per seam. you may only do 1 option.
5. You can weld a plate across the driver's door not to exceed 6 inches past the door seams.
6. For driver's protection you may weld a bar behind the seat. it may be an x, and cannot be welded to the frame, sheet metal only. you may also run bar across the dash area. and you may have a bar connecting the two bars, one on each side of the car. you may also have a roll loop. it must be mounted to the back bar or the floor pan, not to the frame.
the back bar and roll loop cannot be more than 12 inches from the back of the seat. the roll loop has to go straight up, cannot angle forwards or backwards. and can bolt or weld to the roof.
7. Bumpers are interchangeable but must be a car bumper.

8.No homemade bumpers or brackets.

9.You can weld bumper brackets or towers to the frame. you can weld bumper brackets and shocks to the bumpers. you can weld shocks to shock tower. no adding any metal to the bumpers, shocks, or brackets. you can weld the chrome to the backing on the bumpers. weld bumpers on good we don't want them coming off.

10.Front and back bumpers may have two straps from the trunk lid or tailgate to the bumper. straps can be up to 4 inches wide and no thicker than 1/4 inch. and they can't be mounted any more than 5 inches on the bumper and no more than 5 inches on the car. if front straps are mounted on the hood, the hood has to be re-moveable for inspection. call with questions first.

11.Hood must have a 12-inch hole cut out of it for fires. any holes cut into the hood maybe bolted back together with 3/8" or less bolts.

12. You are allowed 8 hood bolts and must have at least 4.

13. You may have up to 1" all thread from the hood down to the frame, but it must pass through a body mount hole in the frame. you may weld the top 5" of the all thread to the core support. Chrysler products may run the all thread behind the radiator support down to the top of the frame and may be welded to the top of the frame with no added material.

14.Hood bolts must be sheet metal to sheet metal. hood bolt plates cannot exceed 5"x5"x1/2"

15.4 3/4" all thread may run from the trunk lid to the frame. you may use wire in 4 spots with 4 loops from the trunk lid and they go around the frame. BUT YOU CAN'T DO BOTH.

16. Body bolts can be replaced with up to 3/4" all thread and plates no bigger than 4"x4"x 1/4" may be used.

17.Rust holes in body may be patched with sheet metal only. do not cut rust out, and weld 2" beyond the rust.

18. DO NOT PATCH THE FRAME OR WELD THE BODY TO THE FRAME.

19.Suspension must be stock height, and must work.

20.Leaf springs must be stock. you may add one leaf spring as long as the main but it may not be wrapped to form a double main. leaf springs must stagger down from longest to shortest.4 clamps per side max, homemade or factory. clamps cannot exceed 2"x4"x1/4". you can put spacers in sagging coil springs.

21.You can bolt or wire coils springs to the rear end and frame to prevent them from falling out. you can weld leaf spring mounting brackets to prevent them from coming unbolted. you can loop chain or wire from the rear end to the frame in 2 spots on each side. you may run wire or chain from frame rail to frame rail in 2 spots behind the rear end.

22.Tie rods and rear end control arms may be reinforced but must still be workable.

23.You will be allowed 1 spot with 4 loops of wire in each window opening and it may go through the frame.

24. Hard top cars can weld a strap at the doorpost to the roof.

25. You may cut wheel wells for tire clearance. fenders may be bolted back together. the fender maybe trimmed and welded.

26. You can run a shifter through the floor. you can have a switch panel. you may have a hand throttle. if you are running an electric fuel pump, the shut off must be clearly marked.

27. You may alter your steering.

28. You may run a distributor protector, but it may not come into contact with anything, firewall, dash bar, etc., at any time or you will be dq'd.

29. 1977 and newer gms, and 1979 and newer ford motor company cars may tilt the front end. you cannot add any metal and frame must be stock appearing.

30. 1977 and newer gms, and 1979 and newer ford motor company cars may also weld a plate on the side of the humps. you can use to 1/8" steel. and it must follow the shape of the hump. it can only be 6 inches on either side of the center line of the hump. and you can only plate the outside of each frame rail, do not plate the inside of the frame.

31. Any large holes cut into the firewall, may be required to be covered before running.

if cars are pre-ran or built to different rules, call with any questions as to what will be allowed. if it's not in the rules, call first. if anything is found on your car that was not in the rules, you will have one chance to fix it or you will not run.

COMPACT CAR BUILDING

1. General rules and car preparation also apply to compacts.

2. Wheelbase is 107" or less with 4- or 6-cylinder motor.

3. Doors, trunk lids, and hatch lids maybe welded solid. You can use up to 3/8" round stock or up to 3"x1/4" flat stock.

4. No welding on frames except bumpers.

5. If you do not weld the doors, trunk, or hatch lids you may use wire #9 or smaller or 3/8" or smaller chain in two spots per seam.

6. A bar behind the seat is mandatory. you may also run one on the dash and 2 inside to connect them. you may also run a roll loop, but it must be connected to the back bar or floor pan, not the frame, and must go straight up, not forwards or backwards. back bar or roll loop cannot be any more than 12 inches from the back of the seat.

7. No kickers from either the front bar or the back bar.

8. You may weld a plate across the driver's door no more than 6 inches past each seam.

9. Bumpers are interchangeable. no homemade bumpers or brackets.

10. You can weld bumper brackets or towers to the frame. you can weld shocks to shock towers. no adding any extra metal to bumpers, shocks, or towers. weld the bumpers on good, we don't want them falling off.

11. Hood must have a 12-inch hole cut out of it for fires. any holes cut into the hood maybe bolted back together with 3/8" or less bolts.

12. You are allowed 8 hood bolts and must have at least 4.

13. Hood bolts must be sheet metal to sheet metal only.

14. the front two hood bolts maybe up to 1" and may be welded to the top of the frame. you may weld the top 3" of the all thread to the core support. all thread plates can be no bigger the 5"x5"x1/4".

15. Hood must be removed for inspection.

16. You may run wire up to #9 from the bumper to the core support, not the hood, in two spots.

17. Suspension must be stock and workable. leaf springs must be stock stagger down from longest to shortest. You may have up to 4 clamps per side and they may not exceed 2"x4"x1/4". spacers may be put in sagging coil springs.

18. No adding leaves.

19. No double mains.

20. You may flat stack the leafs, but no reverse arch.

21. You can weld the k member, but no welding the frame seams.

22. Again make sure the gas tanks and batteries are safely and properly mounted.

There is no beer or alcohol allowed in the pits. Offenders will be asked to leave. Thank you!

Full size will pay \$1000 to win and compacts \$500. We have the payout for the top 3 in each class. \$50 guarantee money back.

Inspections are from 9:00-10:30. If you cannot make it by 10:30, you should call and we can work something out. If not, and you are late, there will be a late fee. **Derby will start at 11:00 A.M.**

Car and driver is \$30 and pit passes are \$20.

For any questions or concerns, you can call Matt Lenz at 563-506-0509. Thank you.